# STRATTVE GLASS GRADE SILITORS FOR PERCENTAGES

JANUA JEOTT HUNDERA

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1997

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4-35 Flot of the elemental connectorgions of Co solutions of True spected with 15/45, 52/52 30/55, and 36/65 for 2, 3, 7, 9, 16 and 12

6-42 Flot of the observat concentrations of P in solutions of True Exected with Novil, NASI.

4-41 First of the absential concentrations of St in solutions of Tria searcher with 70/43, 73/33, 70/35, and 73/66 Cos E, J. 7, 8, LC and IZ beams on ITO

4-42 Protograph of BGTS disk and Yelf disk reacted in MET for 24 hours at 27°C

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JANUS SCOTT HAVE

Major Department Materials Orlance and Engineering

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## CHAPTER 1

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# CHAPTER 3

# 1.) Preparation of Silicone Steets

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SST, referring the statute two passes general rest. SST, referring the statute for the rest, record and allows to dry on a life-free times. The solution was captional at the competition when for pit memorated of the activities of FTC. The existing was evenly and aread for 20° analysis. The desired worker of cost comple was shalped using FTC applicationary and for voltage 200 applicationary and for voltage 200.

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I'm say o, 1, 5, 5, 12 and 24 hours of samples at each time

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# 5.7 Constitut Concentrations

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Thick 3-2 DCF parameters as

Essept	New Length (ML)	Elmench time (Masco	(III) voltage
Phosphorus	213 62	5088	600
5ilienn	285.16	800	410
Calenan	353.37	1068	100

there are 0.2 ppm r, 0.21 ppm Po, and 0.2 ppm Ca (80)581.

# CHAPTES 4

# A.L.MADO

[8605] The unconted maple (believe shows a result for allieum; a marrow peak of 1550 on 'representing Si-CS, Bending, 2 peaks at 1150 and 1500 on 'representing Si-Cs stratething, and a sector peak at 500 cm' representing the Si-Chi, representation benefits.



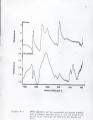
Figure 4-1: FTTS reference spectra for 5/5/Frama bloodtom plans product mested allicons and an excepted silicons disk resulted in RET for 13 days at 37% longers with Table 2-2.

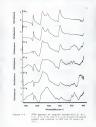


Septem 8-20 500 micrograph of 5/5/Funes saudents resorted in SET for 10 days of 37% Sone that MCA. COUNT Schlockel has beened on both the bisseriew glass pertural class a 149% sade; and the alliness pulpers chefdlet.

### 4.7 Versal benefit of Peale

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Chippe In

ning with 2 2 g blooming glass predict howing partition obsized by millsome layer



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68M image of the cross-section of a sample coasted with 0 K g of bloomtime glass powder. Imposing exposes particles on markers



France Con-

A lease of the surface of a 3.3 maggaocted in AFF for 20 hours at 37°C. Ston. e lack of Electine glass particles on the effice.



Capie Se

508 image of the surface of a 5.3 sample residual to 507 for 20 hours on 52%, Sons, the Large number of bookstaw glass postulates on the carriers

Figure 6:1 these the motion of a 2.6 angle account. Of the 50 mere 2.6 the account of the sequent observed principles and interest account on the sequent observed principles and interest account of the 50 mere 2.6 and 2.6 mere 2.6 mere

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on DMF melecion reacted with 0, 8 1, 9 2, 8 3, 0.4 and 8 5 mamples versus the time





Fagure 6-11: First of the culctam consensatates lin pept in ART solution reacted with C. C.J. C.J. E.J. C. and C.S samples versus the time period (in hours at 27%)

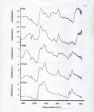
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methilished to determine at this effect would also occur alth Allaiome mamples. Both circular (ELH) and cectabipals (ELH) shaped mamples were noto not tosted. These mamples had distinct areas costed with blooming plans punder and



ANALYSIA Of the workers, by TELL, of CEL Imagine showed a Rinking words on the mogleta described in the province section, as SCL legal Zaiman on the nutfors offer: 1 day mention on SEC to be in Paging 4-03). These imaging may mention the formation of an ECA legal and the omnion class copium. You worker CEN larger and the omnion class copium. You worker CEN larger are tread in the ECA Tomation in set Figures 4-12 images, 4-17].



samples record to GMT for 0, 1, 5, 18 and 1 day of JTC



Figure 4-14 MEM Alloropough of a monthm of CC3 mample rection in mil for 50 object at 17th. Make the last of CC4 growth on the ellicose murico away from elemnity probed blocetter discs particles. A liquid of ECA can be seen ensisted the partials particles.



Figure 4-15: 6DH misroproph of a section of til sample resided to BHT for 10 days at 17th, legen to the section of the section of the section of the specied only, labers is accompanied as the BEA Leyer on the salinear series; formeth i limited of the 17th, which perhapses are



Their did (Of micrograph of a section of (1) sumpla exacted in OFF for Dr Coye at 2TC. This is a regulated section of Figure 4-15.

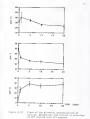


Lifens 6-1

EDM Micrograph of a section of tl2 swepts Institut is IDF for 1 days at IDF. Some the Jayer of 8th grown both on and between the glass particles.

The second secon

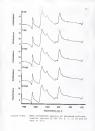
The elemental concentration of Gr. F and Ds. as Oblicion an Homester by ET are shown in Paymer 6-13. The publics do some graph represent the meso of solutions from 3 waverake mongles. Of measurements and most the error and represents the standard deviation of that more. As on the postion study, area I day the prospercy level bas demonsted does not proposition for the Michael.



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Figure 6-22: ADM misrograph of a 70 heat comple conced in DFF Tot 2 days at 27%. BCA layer was be miss between peculicles that are 4100 un

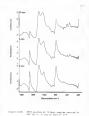


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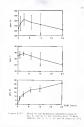
MT 182 2 Gays at TYC MEA Layer can be sen between purticles that are CID am MICC - A CLICIE of BCE has be asset on the stder of a open some where a minating MILIES has desired a last of SCE WorldStd Dat Date Allicome surface



figure 4:751 SDR addressment of a 10 Heat mapper reacted in 500 fer 3 day at 375 BCR layer set be men Regionaling to form between participes 50 the Upper 14ft Anna Couley



When Yo when a sended to present for 10 days in they, show An amin of crystalline P-O peaks become much larges and the (tetroposal) peak of 91 cm / is coduced suggesting new load of the allicons is point opened by MCA.



The legal of 50 to relations seen to Figure 0:27 courts
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## 5.5 January 10745, 75/52, 10745, 4 75/5

I and II here, septem were mode of houseless places of vertical compositions using the seasonal technique, described shows. The compositions and Carly cotts of the Charge conducts used our about a Thick 6-t. These thouseless global products were obtained from U T Minnesmalk and had

THOSE 4-1: Econotite gloss compositions

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12a	12.1	21.5	27.1	
550	55 1		32.2	
634	80.3		15.6	

233, 19:15, end To/45. These disks were received in both to believe and the for J, 7, 5, 13, and 12 bours. PTIX eligans of their wafers receased as specifical changes.



Figure 4-26: diff electrograph of a 12/61 ample sourced in 28% for 12 hours at 270. Bit layer on be seen beginning to face between particles.



ENT don I house at NYC So HCA growth o be seen between pertiales



Figure 4-30 SER Micrograph of a 75/52 member practed in SEP for 12 hours at FPC SEA quoth dan he sent on and between the place particles.



BRY dor 12 hears at 370 IEEA growth can I would oil wid Between the glass porticion



Figure 4-32: SEM micrograph of a 78/53 Ample second in SAF for 13 locar at 3792. Scarce MCA growth can be seen between the partialar



BFF for 12 house at 27°C. The particles coerties serios shows only silice gal.



Figure 4-34 IRR minimproph of a TI/ED memple reacted in 58F for 12 hours at 3FC. The million gol layer consents particles tegether

equary roof of the distance segments that this reaction is diffusion centralied process. The concentration of doug release from polyment systems follows a similar relationsh

$$(a_1/a_2 - a_1)^{1/2}$$
 (6)

where symmetry one consideration, it is the Liab, and it a diffusion constant. Then is proportioned on the distance only by the velocity (v) of diffusion and therefore this equation is also proportioned to the distance by Equation 4-2 (No.27).

Illiams between bounding gives precise foreign supporting Thin States bounding gives precise foreign support the Courty that a late of leaded line maintained by Departition. The lates were from the 213 gives comparations have sender decrementing plaque attributions and that the convenient on cytical ALD distince, the aid and that the convenient on cytical ALD distince, the difference is been found to 2010 contrary content for supporting supporting and the 2010 convenient content for the convenient or supporting states difficulties medification such comparation organization states difficulties medification who employed the statistic difficulties medification who employed the statistic difficulties medification that the states of the statistic difficulties medification that the state of the statistic difficulties medification that the state of the statistic difficulties medification that the state of the sta



between particles (pm ") vm. the estimates pergenage of SCA formation on the silicon between particles after 12 hours in ESF



Figure 4-36; Figs of the elemental concentration of calcium in adjutions of MFF remoded with 70/45, 70/55, 70/55, 70/60 and togeted alliance duals for 0, 2, 7, 8, 16, and 12 hours of 170.



phosphorus La addwinner of nef control wa 33/46, 78/52, 78/55, 76/62 and anomaton militore diaba for 0, 7, 7, 5, 16, and 15



Nilinos LD Milations of DEF reaches with Novel, 76/30, Novel, 78/90 and monated Millions dates for C, 1, 7, 5, 18, and 1 hears at NYC.



ligary 4-35: First of the elemental occommunities of eviction to calledgoes of first reacted with NOV43, 75/33, 30/38 and 30/65 for 6, 3, 7, 10 and 12 hours at 15%.



Figure 8-65 | Flot of the elemental concentration of phosphorus in solutions of Tris rested with N(s), 13/13, 78/13 and 78/03 for 2, 1, 1, 4



Flet of the elemental denomination of minimum in melitions of True medical with NAMA, TRANS, TORSE AND TOWN FOR C. S. T. S. TO and II bours at 370.

A new-way statiguts of unitarios (MROSA) statigutes) impactant of the LCP data from both the DBT and Tyle missions was performed using tablade (version 2 0), displied Sathwise, the Colego, CV. Comparisons were made between the 4-diam compositions for evok team person, skimment COL. P AND TAI) and malation. The results are presented in Table 4-7. In indiction, a multiple pairwise pack test unlay a Stylment's t heat was performed to compare

Main 4-2: Remains of A90%% statistical comparison

	567 11	LETTON.	
	Ca levelo	0 levels	
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T bours	P = 0.0033	2 = 9 6126	F = 0 0010
	P - 8 6004	F - 0 2675	F = 0 007
	F = 6 0000	P = 9 9336	F - 0 003
	F = E 0009	P = 0 0352	P = 0 0225
	True Settle		
3 bours	P < 8,9001	F 0.0011	F < 6.0001
7 bours	P 4 8 8081	F = 0.0608	F = 0.0833
5 torra	F < 8 0001	P   0.0444	
	F < 0.0001	P = 0 8842	1 - 0 6065
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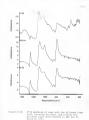
poster that expected by where (\* < 0.05) for all the time periods with the Ca and NJ levels: The Liveds and differences observed with these 2 showers are additionally

5; Seedia LE SET jobore SET bear-time) and Tris was purformed pain-wave for each element, time puriod and glass composition variet e Welch capazing approximate a tent There were an extrinctionally expeditional difference found forcewor the Johnson on 200 and Time Inc. elements of or dys received pre-1,200 and 2,200 (). Administrationally disputional difference was not elements between the Lorentz and Lorentz and Constant and Time Volta administration tensors pre-2,000 to the Constant and Cons

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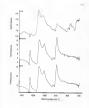


Figure 4-44: PP2X Spactrum of duck with the militone layer FG. Occupied militain, and without the militone layer NGS reacted in SMY Tax 24 hours at 27%

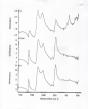


Figure 6-65: FTEM opention of disk with the ellicone layer 1-2, recented ellicone, and without the millione layer 842 rectted in SBY far 24 hours at 275



Pagine 4-46 Plot of the elemental concentration of chicken is notetion of the exacted for S. 1.



47 Met of the elemental consentration of phesphares in welstloss of 580 courses due t 1, 3, 7, 12 and 26 hours at 570;



Figure 4-46: First of the elemental concentration of animons in miletions of EMP resetted for 0, L.

# Throughout these experiments the pit of a

are measured at 27% office boung resolved with the semple; the minimized were made at 37% due to an observation that the Consense in pil between your temperature (on. 55%) on 27% was as high as 0.5

the particles and 2) the motesty of Sens Lauded from ministen are used in the formation and greets of the SGA layer on the narface of these seminor. The later reason i also supported by the columns to the sociation Lau

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In all wases the encentrations of Co and F in solution. Secretary with the NGA firmation on the surface. This expresented a consumption of those ion for the foundation and provide for the operation larger. This force, complete with the converted securities one registers in we describe the force of the control of

The total leaded loss is addition. This may have been the to the leadared raiser of the fermetter of RCO on the sequence out the finetimes effect on this fermetter has desired after the this fermetter bad on the only solution. The limited effect was also observed in a 1858 of leavest in the reveril exclusive pit over the shortest me that the total of the course of

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- Batick, C. Seftiger, G. Harmitz, J. Lefters, G. Hardi, M. Millions depredation reactions. Curr Dop Microbial Immunol 239 13-21, 1919
- Missen, J. Maryina, J. Bone, E. Sarlob, G. Surfar properties of fatey outherers relationship to betterize and fooling. Proceedings Fifth Merid Scenterials Company, 175, 1996

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